

Claims:

1. A liquid crystal display with a light emitting flat surface, comprising:
a light guide having the emitting surface, and a pair of end surfaces; and
a pair of light sources arranged to correspond with the pair of end surfaces;
wherein the light guide forms two diffusion sections having different refractive indices thereby creating a junction surface between diffusion sections.
2. The liquid crystal display as recited in claim 1, wherein the light sources are linear light sources.
3. The liquid crystal display as recited in claim 1, wherein the light sources are linear light sources and the junction surface formed in the light guide is parallel to the linear light sources.
4. The liquid crystal display as recited in claim 1, wherein the junction surface is positioned substantially equal distant from the two light sources.
5. The liquid crystal display as recited in claim 1, wherein the junction surface is formed in the light guide by injection molding two different mixtures of transparent materials and scattering material, the two different mixtures having different refractive indices.
6. The liquid crystal display as recited in claim 1, wherein the light guide comprises a substrate made of highly transparent material.
7. The liquid crystal display as recited in claim 4, wherein the scattering material is formed by polymethyl methacrylate having a grain size ranging from 5 to 30 micrometers.
8. The liquid crystal display as recited in claim 4, wherein the scattering material is formed by melamine resin having a grain size ranging from 5 to 30 micrometers.

9. A liquid crystal display, comprising:

a diffusion board having an emitting surface and an incident surface; and

at least a light source arranged behind the incident surface; wherein the diffusion board forms an ordinary diffusion section and an intensified diffusion section which intensified diffusion section has a refractive index and corresponds in shape and position to the shape and position of the light source, thereby eliminating a “shadow” image of the at past a light source when viewed from the liquid crystal display.

10. The liquid crystal display as recited in claim 8, wherein the diffusion section is formed by providing scattering particulates having a different refractive index, thereby having a higher diffusion capability as compared to the rest of the diffusion board.

11. The liquid crystal display as recited in claim 8, further comprising a light enhancing plate to intensify the luminance emitted from the light guide.

12. The liquid crystal display as recited in claim 8, wherein the light sources are provided with a reflector.

13. The liquid crystal display as recited in claim 11, wherein the reflector further comprises a reflected film to increase the light reflected therefrom.

14. The light crystal display as recited in claim 8, wherein the intensified diffusion section is formed of fluorescent particulates.

15. A light crystal display comprising:

a backlight module including a plurality of light sources emitting lights toward a diffusion plates, wherein

said diffusion plates defines at least first and second types regions thereof, of which the first type faces the adjacent light source in a perpendicular manner while the second type faces the adjacent light source in an obliquely manner,

under a condition that diffusion capability of said first type is better than that of the second type.